

IN THE CLAIMS

Please amend the claims of the application, without prejudice, as shown below:

1 (Currently Amended) A method for generating a digital color standard system for the generation or reproduction of standardized colors, comprising:

a[.] providing a color gamut;

b) Dividing dividing a- the color spectrum gamut into a plurality of discrete spectral color values ~~with predetermined gaps between at least some of the discrete spectral color values;~~

b[.]c) Digitizing digitizing the discrete spectral color values; and

d) representing the digitized discrete spectral color values by means of at least one reflectance curve specified in regular intervals and wherein over at least a part of the color gamut, the digitized discrete color spectral values are substantially equidistant to each other with respect to the color gamut

e. ~~Processing the digitized color values.~~

2 (Canceled).

3 (Canceled).

4 (Currently Amended). The method according to claim 1, wherein the discrete spectral color values or the digitized discrete spectral color values are adapted to a color recording capability of a particular color recording process or a particular color recording device.

5 (Currently Amended). The method according to claim 4, wherein the particular color recording device is one selected from the group consisting of an ink jet printer[,] and a rotary printing press ~~and an alternative printing device.~~

6 (Currently Amended). The method according to claim 1, wherein at least one of the discrete spectral color values and the ~~digital~~ digitized discrete spectral color values is adapted to a particular recording substrate.

7 (Currently Amended). The method according to claim 1, wherein at least one of the discrete spectral color values and the ~~digital~~ digitized discrete spectral color values is adapted to a particular recording material.

8 (Currently Amended). The method according to claim 7, wherein said particular recording material is one selected from the group consisting of an ink[,] and toner ~~and an alternative printing component~~.

9 (Currently Amended). The method according to claims 1, wherein particular colors of particular image areas are scanned by means of a spectral measurement device and the particular colors or the spectral color data of the particular colors are assigned to the digitized discrete spectral color values for further processing.

10 (Currently Amended). The method according to claim 1, wherein at least one of the discrete spectral color values and the digitized discrete spectral color values is set in a relation to pre-defined light conditions.

11 (Currently Amended). The method according to claim 1, wherein the appearance of at least one of a discrete spectral color value and a digitized discrete spectral color value on a particular recording substrate or recording device is set into a relationship to pre-defined light conditions.

12 (Canceled).

13 (Currently Amended). The method according to claim 1, wherein ~~the a~~ recording substrate ~~which is to be used~~ is being spectrally measured to provide a recording substrate-specific spectral color data set, and at least one of the discrete spectral color values and the digitized discrete spectral color values is adjusted according to said recording substrate-specific spectral color data set.

14 (Currently Amended). The method according to claim 1, wherein at least one color of a specimen is spectrally measured and spectral color data is assigned to at least one of a matching discrete spectral color value and a matching digitized discrete spectral color value.

15 (Currently Amended). The method according to claim 1, wherein the digitized discrete spectral color values are collected to provide a digital color book of at least one chromaticity.

16 (Currently Amended). The method according to claim 1, further comprising processing the digitized discrete spectral color values, wherein said processing includes at least one of the following processing steps: assigning the digitized discrete spectral color values to color values of images, transmitting at least one digitized discrete spectral color value between remote terminals, and printing out at least one digitized discrete spectral color value.

17 (Currently Amended). The method according to claim 1, further comprising using a data carrier ~~for carrying~~ to carry at least one of said digitized discrete spectral color values.

18 (Currently Amended). A computer system for generating a digital color standard system for the generation or reproduction of standardized colors, comprising a processor that is programmed to (i) a) divide a color spectrum gamut into a plurality of discrete spectral color values with predetermined gaps between at least some of the discrete spectral color values, (ii) b) digitize the discrete spectral color values, wherein the digitized discrete spectral color values are representable by means of at least one reflectance curve specified in regular intervals and wherein over at least a part of the color gamut, the digitized discrete spectral color values are substantially equidistant to each other with respect to the color gamut; and (iii) c) process the digitized discrete spectral color values.

19 (Currently Amended). The computer system according to claim 18, wherein said digitized discrete spectral color values are stored in memory associated with the processor and are accessible through a data network.

20 (Currently Amended). The computer system according to claim 18, wherein said digitized discrete spectral color values are stored in memory associated with the processor in the form of at least one digital color swatch.

21 (Original). The computer system according to claim 18, wherein color recording characteristics data of a plurality of recording substrates are stored in the memory associated with said processor and are accessible through a data network.

22 (Original). The computer system according to claim 18, wherein the processor can be accessed in order to combine a standard digital color swatch book or digital standard color data with color recording substrate characteristics, to generate color reproduction simulation data.

23 (Original). The computer system according to claim 18, wherein color reproduction characteristics data for a plurality of color materials are stored in memory associated with the processor to be accessed through a data network in order to retrieve data.

24 (Currently Amended). The computer system according to claim 23, wherein said plurality of color materials are selected from the group consisting of ink[,] and toner and an alternative printing component.

25 (Currently Amended). The computer system according to claim 18, wherein at least two of the following kinds of data can be accessed or combined by the processor: [-] digital standard color swatch book data or digital standard color data; [-] color recording characteristics data for recording substrates; [-] color reproduction characteristics data for color materials; [-] and color appearance characteristics data for ~~various~~ color reproducing processes; in order to achieve particular color reproduction simulation data.

26 (Currently Amended). The computer system according to claim 25, wherein said color reproducing processes include ~~various~~ at least one selected from the group consisting of printing processes, electro-photographical color copying processes, and screens.

27 (Original). The computer system according to claim 18, wherein color reproduction simulation data can be browsed by a remote terminal.

28 (Currently Amended). The computer system according to claim 18, wherein color recording characteristics data for recording substrates, color reproduction characteristics data for color materials, or color appearance characteristics data for ~~various~~ color reproducing processes can be transmitted to a data carrier or device to be stored, in order to be accessible or combinable by remote terminals, to achieve particular color reproduction simulation data.

29 (Currently Amended) A data carrier system, comprising:

a device computer readable medium ~~that is adapted to receive~~ configured for the storage of color data thereon, and on which computer readable medium is stored color data, that is the color data being one selected from the group consisting of color recording characteristics data for recording substrates, color reproduction characteristics data for color materials, color appearance characteristics data for various color reproducing processes, and combinations thereof, wherein said the color data is generated by: (i) a) providing a color gamut, b) dividing a the color spectrum gamut into a plurality of discrete spectral color values with predetermined gaps between at least some of the discrete spectral color values, (ii) and c) digitizing the discrete spectral color values, wherein the digitized discrete spectral color values are representable by means of at least one reflectance curve specified in regular intervals and wherein over at least a part of the color gamut, the digitized discrete spectral color values are equidistant to each other with respect to the color gamut; and (iii) processing the digitized color values.

30 (New). A data carrier system in accordance with claim 29, wherein the computer readable medium is one selected from the group consisting of a CD-ROM, a DVD-carrier, and a computer server.

31 (New). A data carrier system in accordance with claim 29, wherein the color data is further generated by representing the digitized discrete spectral color values by means of at least one reflectance curve specified in regular intervals, wherein over at least a part of the color gamut, the digitized discrete color spectral values are equidistant to each other with respect to the color gamut.

32 (New). A data carrier system in accordance with claim 29, wherein the digitized discrete spectral color values are processable by a computer configured to read out the color data from the computer readable medium to generate or reproduce standardized colors.

33 (New). A method for generating a digital color standard system for the generation or reproduction of standardized colors in accordance with claim 1, wherein the dividing step includes dividing the color gamut into a plurality of discrete spectral color values with predetermined gaps between at least some of the discrete spectral color values.

34 (New). A method for generating a digital color standard system for the generation or reproduction of standardized colors in accordance with claim 1, further comprising processing the digitized discrete color spectral values.

35 (New) A computer system in accordance with claim 18, wherein the processor is further programmed to provide the color gamut.

36 (New). A computer system in accordance with claim 18, wherein the processor being programmed to divide a color gamut into a plurality of discrete color spectral values includes wherein the processor is programmed to divide a color gamut into a plurality of discrete color spectral values with predetermined gaps between at least some of the discrete color spectral values.